

ACHKASOV V.F.

FERVUTIN, M.G.; LOGINOV, F.G.; ZHIMBRIN, D.G.; PAVLENKO, A.S.;  
KULEV, I.A.; DONCHENKO, V.I.; DROBYSHEV, A.I.; DMITRIYEV, I.I.;  
YERMAKOV, V.S.; SOSNIN, L.A.; PODUSHKIN, A.S.; SMIRNOV, M.S.;  
TARASOV, N.Ya.; NIKOL'SKIY, G.P.; KRYLOV, N.A.; KOOTsov, G.I.;  
ACHKASOV, D.I.; VSELOV, N.D.; CHIZHOV, D.G.; UGORETS, I.I.;  
NIKIFOROV, F.N.; PLATONOV, N.A.

Vladimir Nikolaevich Sergeev; obituary. Elek. sta. 27 no.3:63 Mr  
'56. (MIRA 9:8)

(Sergeev, Vladimir Nikolaevich, 1903-1956)

RECORDED, 4/11

UGORETS, I.I.; LAVRENENKO, K.D.; BONDAREV, N.M.; PLATONOV, N.A.;  
ACHKASOV, D.I.; MKHITARYAN, S.G.; SAVINYKH, A.I.; MALYUTIN, I.P.  
VLADIMIROV, P.N.; MOSKOVSKIY, F.A.; GEL'FAND, M.Z.; KARAVAY, N.M.  
BESPROZVANNYY, I.A.; KIKINA, M.I.; TRETNIKOVA, Ye.M.

Nikolai Nikolaevich Romanov; obituary. Elek.sta. 27 no.4:63 Ap '56.  
(MLRA 9:8)

(Romanov, Nikolai Nikolaevich, 1906-1956)

"APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000100310013-2

ACHKASOV, D.

DROBYSHEV, A.; BONDAREV, N.; SAPOZHNIKOV, F.; ROGOVIN, N.; ACHKASOV, D.; VESELOV, N.; GROBOKOPATEL', S.; RABINSKIY, M.; PESTOVSKIY, A.

Semen Iosifovich Kazarnovskii; obituary A. Drobyshev and others.  
Elek.sta. 27 no.5:63 My '56. (MLRA 9:8)

(Kazarnovskii, Semen Iosifovich, d.1956)

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APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000100310013-2"

Achkasov D.I.

SOV/112-59-2-2794

Translation from: Referativnyy zhurnal. Elektrotehnika, 1959, Nr 2,  
pp 73-74 (USSR)

AUTHOR: Achkasov, D. I., and Grigor'yev, Yu. Ye.

TITLE: Constructing the Kuybyshev-Moscow 400-kv Electric Transmission Line  
(Stroitel'stvo elektroperekedachi 400 kv Kuybyshevskaya GES-Moskva)

PERIODICAL: V sb.: Energ. str-vo SSSR za 40 let. M.-L., Gosenergoizdat,  
1958, pp 373-380

ABSTRACT: The Kuybyshev-Moscow transmission line is the first member of the  
united high-voltage network of the USSR. Among transmission lines of this  
class, the first 380-kv 954-km single-circuit line was put in operation in  
Sweden in 1952; the second line is the Kuybyshev-Moscow (1956) 400-kv 900-km  
line. The latter consists of two circuits with three switching stations and a  
480-Mva capacitive compensation. The transmission-line circuits terminate  
at receiving substations. Each substation has four banks of 400/110/11 and  
220/110/11-kv transformers; provision is made for eventual installation of

Card 1/2

ZASYAD'KO, A.F.; KUCHERENKO, V.A.; PAVLENKO, A.S.; GRISHMANOV, I.A.;  
FROLOV, V.S.; SHASHKOV, Z.A.; YEFREMOV, M.T.; SMIRNOV, M.S.;  
CHIZHOV, D.G.; NOVIKOV, I.T.; NOSOV, R.P.; ASKOCHENSKIY, A.N.;  
NEKRASOV, A.M.; LAVRENENKO, K.D.; TARASOV, N.Ya.; GABDANK, K.A.;  
LEVIN, I.A.; GINZBURG, S.Z.; ALEKSANDROV, A.P.; KOMZIN, I.V.;  
OZEROV, I.N.; SOSNIN, L.A.; BELYAKOV, A.A.; NAYMUSHIN, I.I.;  
INYUSHIN, M.V.; ACHKASOV, D.I.; RUSSO, G.A.; DROBYSHEV, A.I.;  
PLATONOV, N.A.; ZHIMERIN, D.G.; PROMYSLOV, V.F.; ERISTOV, V.S.;  
SAPOZHNIKOV, F.V.; KASATKIN, M.V.; ALEKSANDROV, M.Ya.; KOTILEVSKIY,  
D.G.

Fedor Georgievich Loginov; obituary. Elek.sta. 29 no.8:1-2  
Ag '58. (MIRA 11:11)  
(Loginov, Fedor Georgievich, 1900-1958)

NEPOROZHNIY, P.S.; SAVINYKH, A.P.; SAPOZHNIKOV, F.V.; SERDYUKOV, N.P.;  
ACHKASOV, D.I.; BURGSDORF, V.V.; NEMOV, N.P.; SYROMYATNIKOV, I.A.;  
KNYAZEVSKIY, B.A.; ROKOTYAN, S.S.; STEKLOV, V.Yu.; FEDOSEYEV, A.M.;  
GRUDINSKIY, P.S.; KHOMIakov, M.V.; VENIKOV, V.A.; CHERNOBROVOV, N.V.;  
MEL'NIKOV, N.A.; BERSHADSKIY, I.S.

Aleksandr Dmitrievich Romanov, 1905; on his 60th birthday. Elek.  
sta. 36 no.11:94 N '65. (MIRA 18:10)

ACC NR: AP6016890

SOURCE CODE: UR/0104/65/000/011/0094/0094

AUTHOR: Noporozhniy, P. S.; Savinykh, A. P.; Sapozhnikov, F. V.; Serdyukov, N. P.; Achkasov, D. I.; Burgsdorf, V. V.; Nomov, N. P.; Syromyatnikov, I. A.; Khyazevskiy, B. A.; Rokotyan, S. S.; Steklov, V. Yu.; Fodesoyev, A. N.; Grudinsky, P. S.; Khomyakov, M. V.; Venikov, V. A.; Chernobrovov, N. V.; Mel'nikov, N. A.; Bershadskiy, L. S.

2/  
B

ORG: none

TITLE: Honoring the 60th birthday of Aleksandr Dmitriyevich Romanov

SOURCE: Elektricheskiye stantsii, no. 11, 1965, 94

TOPIC TAGS: electric power plant, industrial personnel

ABSTRACT: In July 1965 A. D. Romanov celebrated his 60th birthday and the 35th anniversary of his active life as a major designer, operator, and builder of electric power stations. On his graduation in 1927 from the Moscow College of Engineering, Aleksandr Dmitriyevich joined the Mosenergo Moscow Power System where he steadily rose through the ranks until he became Deputy Chief Engineer, while at the same time participating in the design and practical introduction of 500-kV electric transmission lines running from Moscow to Volzhskaya Hydroelectric Power Station and from Kuybyshev to the Urals. Since 1959 A. D. Romanov has been Chief Engineer at the Glavvostoekstrotsetstroy Main Administration for Power Grid Construction in Eastern USSR of the Cord 1/2

ACC NR: AP6018890

State Production Committee for Energetics and Electrification USSR. Along with his native work, since 1930 A. D. Romanov has been teaching courses in Power Networks and Systems as well as in Power Stations and Substations at the Moscow Correspondence Institute of Energetics and, later, at the All-Union Correspondence Institute of Energetics, and, in this capacity, has trained new cadres of power engineers. In 1957 the title of Assistant Professor was conferred on him and in 1963, the title of Candidate of Technical Sciences. He has published more than 40 scientific and technical articles on power engineering and construction and he is a member of the editorial boards of the periodic anthologies Energeticheskoye Stroitel'stvo (Power Construction) and Energeticheskoye Stroitel'stvo za Rubezhom (Power Construction Abroad). He has been a Party member since 1932 and is the bearer of the Order of Labor Red Banner as well as of various medals. Best wishes for further creative work are extended to him. Orig. art. has: 1 figure. JPRS

SUB CODE: 10 / SUBM DATE: none

Card 2/2 (C)

ANDREYEV, N.N., dots.; ACHKASOV, K.A., st. prepodavatel'; DOLZHENKOV, A.T., dots.; DOKUCHAYEVA, A.P., dots.; KISELEV, I.I., dots.; KOZLOV, I.P., st. prepodavatel'; TROFIMOV, V.I., dots.; PESTRYAKOV, A.I., nauchnyy red.; SHALYT, N.A., red.; TOKER, A.M., tekhn. red.

[Manual for the young agricultural machinery operator] Spravochnik molodogo mekhanizatora sel'skogo khoziaistva. Pod red. A.T. Dolzhenkova. Izd.2., ispr. i dop. Moskva, Proftekhnizdat, 1963. 653 p. (MIRA 16:6)

1. Fakul'tet mekhanizatsii Moskovskoy akademii im. K.A. Timiryazeva (for all except Pstryakov, Shalyt, Toker).  
(Agricultural machinery)

ACHEKASOV, Konstantin Aleksandrovich; VEGERA, Vladimir Fedorovich

[Repair of fuel and hydraulic system devices of tractors,  
motor vehicles and combines] Remont priborov sistemy pi-  
taniia i gidravlicheskoi sistemy traktorov, avtomobilei i  
kombainov. Moskva, Vysshaia shkola, 1965. 275 p.  
(MIRA 18:7)

ACHKASOV, L.G., inzh.; SHCHAPOV, N.P., prof.

Effect of temperature, time, and stress conditions of the type of destruction occurring in low-carbon steel. Vest.TSNII MPS 18 no.1:41-44 F '59. (MIRA 12:3)

(Steel--Testing)

8/137/62/000/001/151/237  
A006/A101

AUTHOR: Achkasov, L.G.

TITLE: Manganese heat resistant and durable steel for railroad structures

PERIODICAL: Referativnyy zhurnal. Metallurgiya, no. 1, 1962, 42, abstract 11294  
("Vestn. Vses. n.-i. in-ta zh.-d. transp.", 1961, no. 4, 43 - 47)

TEXT: Investigations were made of the mechanical and technological properties of "M-grade" manganese steel containing in %: C 0.12, Mn 1.41 - 1.55; Cu 0.28 - 0.29 (I) and "3T" grade carbon steel containing C 0.20 - 0.21; Mn 0.49-0.57 (II). It was established that I had a static strength at 325 - 525°C exceeding that of II by 20%. Ductility of I was by 1.5 - 2.0 times higher than that of II during yield limit tests at 375 - 525°C and did not decrease with longer duration of the test. Unlike II, I is not prone to the formation of intercrystalline cracks during 1,284-hour tests at 525°C. Welded I-specimens broke down in the base metal during short-time tension and yield limit tests within a range of 375-525°C. There are 7 references. ✓

T. Fedorova

[Abstracter's note: Complete translation]  
Card 1/1

ACHKASOV, L.G.; SHCHAPOV, N.P.

Failure of low-carbon and manganese steels. Metalloved. i term.  
obr. met. no.9:28-32 S '63. (MIRA 16:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut zheleznodorozhного  
transporta.

L 39590-65 EMT(d)/EPA(e)-2/EMT(a)/EMP(w)/EJA(d)/EMP(v)/T/EAP(t)/EMP(k)/  
EMP(n)/EMP(z)/EMP(b)/EMP(l)/EJA(c) S/2917/64/000/177/0126/0134  
ACCESSION NR: AT4049405

3  
B+1

AUTHOR: Achikasov, L. G. (Candidate of technical sciences); Zaychikov, A. V.  
(Engineer)

TITLE: Stress rupture strength of soldered joints at high temperatures

SOURCE: Moscow. Vsesoyuznyj nauchno-issledovatel'skiy institut zheleznodorozhno-  
go transporta. Trudy, no. 277, 1964. Tsvetnye metally i splavy dlya zheleznodoro-  
zhnogo transporta (Non-ferrous metals and alloys for railroad transportation),  
126-134

TOPIC TAGS: diesel locomotive, manifold joint, electric locomotive, tin lead  
solder, silver lead solder, soldered joint strength, stress rupture strength,  
high temperature strength

ABSTRACT: The soldered manifold joints of diesel and electric railroad locomotives  
work under high stresses at 140-180°C. Since the low efficiency of tin lead solder  
can be explained by low creep resistance, the TsNII MPS performed tests with such  
soldered joints under static tension and high temperatures. At first, tin lead  
solder was tested. When it was found that lead silver solder was stronger than  
the tin lead solder, stress rupture tests were performed on lead silver solder

Card 1/3

7 39690-65

ability and quality of lead silver solder. The tests indicated that lead silver solder en-  
riched with tin had a higher strength than ordinary lead silver solder.

rupture by two constants:  $T = A/\gamma$ , thus, only a small number of tests were required for plotting the curves. The tests indicated that lead silver solder en-

Card 2/3

taining 2.5% Ag, 10.25% Cu and 2% Sn should be used for manifold joints. The use of tin is possible for soldering manifold joints if the working temperature of the

ACHKASOV, N.I.; KARPOV, N.A.; MALITSKIY, L.Ya.; ULYUYEV, D.I.

Ballast cleaning machines (ShchOM) are being put into production.  
Put' i put. khoz. no.1:16-17 Ja '57. (MLRA 10:4)  
(Ballast)

ACHKASOV, N.I. & KOMCHINSKIY, V.I.

Improving the quality of maintenance and repair. But' i put,khoz.  
9 m. Oktyabr'skoy doreg (for Achkasov). (MIRA 13t6)

17. Name? Iurik Opytnyy polkovnyy mezhinnyy stantsii No.1, stantsiya  
Reshetnikova, Michurinskoy doreg (for Achkasov). 2. Glavnnyy  
Mash. Opytnyy polkovnyy mezhinnyy stantsii No.1, stantsiya  
Reshetnikov, Oktyabr'skoy doreg (for Kultinskyy).

KUROCHKIN, G.A.; TRAVKIN, V.S.; VLADISLAVLEV, Yu.Ye.; ANTONOV, N.V.;  
GUREVICH, E.M.; SHIT, Ye.E.; PETROPAVLOVSKIY, B.P.; ACHKASOV,  
N.I.; BORMOTIN, I.M.

Inventions. Gor.zhur. no.2:74-75 P '63. (MIRA 16:2)  
(Mining machinery--Technological innovations)  
(Earthmoving machinery--Technological innovations)  
(Railroads--Rails)

"APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000100310013-2

ACHKASOV, N.S., vrach (Barnaul)

Prevention of minor wounds. Med. sestra 21 no.1:47-48 Ja '62.  
(MIRA 15:3)

(TRAUMATISM)  
(RAILROADS--EMPLOYEES--MEDICAL CARE)

APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000100310013-2"

ACHKASOV, N.S.

Traumatism in a locomotive depot and its prevention; experience from the work of a health station at the locomotive depot of Barnaul Station. Sov.med. 26 no.6:118-121 Je '62. (MIRA 15:11)  
(VARNAUL (ALTAI TERRITORY--RAILROADS--ACCIDENTS))

LEVCHENKO, G.I., admiral, otvetstvennyy red.; DEMIN, L.A., dots., kand. geogr. nauk, inzh.-kontr-admiral, glavnnyy red.; FOMKIN, N.S., polkovnik, zamestitel' ctvetsvennogo red.; ABAN'KIN, P.S., admiral, red.; ALAFUZOV, V.A., prof., kand. voenno-morskikh nauk, admiral, red.; ANAN'ICH, V.Y., kontr admirall zapasa, red.; ACHKASOV, V.I., kand. istor. nauk, kapitan 1 ranga, red.; BARANOV, A.N., red.; BELL, V.A., prof., kontr-admiral v otstavke, red.; BESKROVNYY, L.G., prof., doktor istor. nauk, polkovnik zapasa, red.; BOLTIN, Ye.A., kand. voen. nauk, general-major, red.; VERSHININ, D.A., kapitan 1 ranga, red.; VITVER, I.A., prof., doktor geogr. nauk, red.; GEL'FOND, G.M., dots., kand. voenno-morskikh nauk, kapitan 1 ranga, red., GLINKOV, Ye.G., inzh.-kontr-admiral v otstavke, red.; YELISEYEV, I.D., vitse-admiral, red.; ZOZULYA, F.V., admiral, red.; ISAKOV, I.S., prof., Admiral Flota Sovetskogo Soyuza, red.; KAVRAYSKIY, V.V. [deceased], prof., doktor fiz.-mat. nauk, inzh.-kontr-admiral v otstavke, red.; KALESNIK, S.V., red.; KOZLOV, I.A., dots. kand. voenno-morskikh nauk, kapitan 1 ranga, red.; KOMAROV, A.V., vitse-admiral, red.; KUDRYAVTSEV, M.K., general leytenant tekhnicheskikh voysk, red.; LYUSHKOVSKIY, N.V., dots., kand. istor. nauk, polkovnik, red.; MAKSIMOV, S.N., dots., kand. voenno-morskikh nauk, kapitan 1 ranga, red.; OKUN', S.B., prof., doktor istor. nauk, red.; ORLOV, B.P., prof., doktor geogr. nauk, red.; PAVLOVICH, N.B., prof., kontr-admiral v otstavke, red.; PANTELEYEV, Yu.A., admiral, red.; PITERSKIY, N.A., kand. voenno-morskikh nauk, kontr-admiral, red.; PLATONOV, S.F., general-leytenant, red.; POZNYAK, V.G., dots., general leytenant, red.; SALISHCHEV, K.A., prof., doktor tekhn. nauk,

(Continued on next card)

LEVENKO, G.I.—(continued) Card 2.

red.; SIDOROV, A.L., prof., doktor istor. nauk., red.; SKORODUMOV, L.A., kontr-admiral, red.; SNEZHINSKIY, V.A., prof., doktor voenno-morskikh nauk, inzh.-kapitan 1 ranga, red.; SOLOV'YEV, I.N., dots., kand. voenno-morskikh nauk, kapitan 1 ranga, red.; STALBO, K.A., kontr-admiral, red.; STEPANOV, G.A. [deceased], dots., vitse-admiral, red.; TOMASHEWICH, A.V., prof., doktor voenno-morskikh nauk, kontr-admiral v otstavke, red.; TRIBUTS, V.F., kand. voenno-morskikh nauk, admiral, red.; CHERNYSHOV, F.I., kontr-admiral, red.; SHVABIE, Ye.Ye., prof. doktor voenno-morskikh nauk, kontr-admiral, red.; CHURBAKOV, A.I., tekhn. red.; VASIL'YEVA, Z.P., tekhn. red.; VIZIROVA, G.N., tekhn. red.; GOROKHOV, V.I., tekhn. red.; GRIN'KO, A.M., tekhn. red.; KUBLIKOVA, M.M., tekhn. red.; MALINKO, V.I., tekhn. red.; SVIDERSKAYA, G.V., tekhn. red.; CHERNOGOROVA, L.P., tekhn. red.; GUREVICH, I.V., tekhn. red.; BUKHANOVA, N.I., tekhn. red.; NIKOLAYEVA, I.N., tekhn. red.; RADOVIL'SKAYA, E.O., tekhn. red.; TIKHOMIROVA, A.S., tekhn. red.; BELOCHKIN, P.D., tekhn. red.; LOYKO, V.I., tekhn. red.; ROMANYUK, I.G., tekhn. red.; YAROSHEWICH, K.Ye., tekhn. red.

[Sea atlas] Morskoi atlas. Otv. red. G.I. Levchenko. Glav. red. L.A. Demin. [Moskva] Izd. Glav. shtaba Voenno-morskogo flota. Vol.3. [Military and historical. Pt.1. Pages 1-45] Voenno-istoricheskii. Zamestitel' otv. red. po III tomu N.S. Frumkin. Pt.1. Listy 1-45. 1958. \_\_\_\_\_ [Military and historical maps, pages 46-52]

(Continued on next card)

LEVCHENKO, G.I.---(continued) Card 3.

Voenno-istoricheskie karty, listy 46-52. 1957.

(MIRA 11:10)

1. Russia (1923- U.S.S.R.) Ministerstvo oborony. 2. Nachal'nik Glavnogo upravleniya geodezii i kartografii Ministerstva vnutrennikh del SSSR (for Baranov). 3. Chlen-korrespondent Akademii nauk SSSR (for Kalesnik). 4. Deystvitel'nyy chlen Akademii pedagogicheskikh nauk RSFSR (for Orlov).

(Ocean--Maps)

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CIA-RDP86-00513R000100310013-2

ACHIKASOV, V.I., kand. istorich. nauk, kapitan 1-go ranga; VLADIMIROV, Z.G.,  
kand. istorich. nauk, kapitan 1-go ranga

Under the revolutionary banners of combat. Mor. sbor. 48 no.11:16-20  
N '64.  
(MIRA 1881)

APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000100310013-2"

ACC NR: AR6029294

SOURCE CODE: UR/0271/66/000/006/A029/A029

AUTHOR: Achkasov, Yu. M.; Zaytsev, A. I.

TITLE: Calculating the control angle in continuous pulse control systems

SOURCE: Ref. zh. Avtomatika, telemekhanika i vychislitel'naya tekhnika, Abs. 6A227

REF SOURCE: Izv. Tomskogo politekhn. in-ta, v. 153, 1965, 142-146

TOPIC TAGS: automatic control, automatic control system, electric motor

ABSTRACT: A continuous-pulse control of the velocity of rotation of a dc motor in a URV-D system is considered when, depending on the control depth, the firing angle of the ion converter is changed. A law governing the change in the firing angle as a function of the control range and shaft load is established. It is shown that the continuous-pulse control of the rotating velocity assures equal current pulses passing through a single rectifier in the entire control range. The pulses are not changed with respect to height when the load is changed within permissible limits.  
[Translation of abstract] 2 illustrations and bibliography of 2 titles. B. U.

SUB CODE: 09

Card 1/1

UDC: 62-531.6

ACC NR: AP6002153 (A) SOURCE CODE: UR/0280/65/000/006/0103/0113

AUTHOR: Achkasov, Yu. S. (Moscow); Yablonskiy, A. I. (Moscow)

ORG: none

TITLE: Signal-noise separation with loss functions that depend on signal-observation time

8,44

SOURCE: AN SSSR. Izvestiya. Tekhnicheskaya kibernetika, no. 6, 1965, 103-113

TOPIC TAGS: signal noise separation, signal detection, radar

ABSTRACT: This processing is assumed: A multichannel device analyzes the outline of the likelihood ratio in the parameters space  $\lambda = (\mu, \tau)$  of the signals being detected and isolates sufficiently powerful single likelihood peaks; each peak is processed in a common computer; the processing is practically optimal if the losses are additive (in the individual solutions) and the signal flow obeys the Poisson law. The loss functions cover parameter determination errors, signal-observation time, missing signals, false signals, and cost of processing. Optimal decisions about the signal presence and continuation or cessation of processing are passed by comparing

Cord 1/2

ALL INFO CONTAINED HEREIN IS UNCLASSIFIED

the likelihood ratio, integrated with respect to possible signal parameters within the peak, with the detection and cessation thresholds. The comparison with the detection threshold is performed on the condition that the decision about the presence of target in the next scanning would result in a greater loss than that associated with the immediate detection. The detection threshold depends on the signal parameters and the accuracy of their determination. Optimal thresholds calculated with an allowance for all possible situations during the successive steps can be replaced with approximately calculated thresholds which allow only for the parameter accuracy in the next step. Orig. art. has: 58 formulas.

SUB CODE: 09, 17 / SUBM DATE: 22Sep64 / ORIG REF: 003

PC  
Card 2/2

DOBRODNOV, F.N.; GERASIMOVA, A.M.; AGRKASOVA, G.V.

Effect of invert sugar on the properties of filtered juice.  
Sakh.prom. 33 no.10:19-23 O '59. (MIRA 13:3)

1. Novo-Troitskaya gruppovaya laboratoriya.  
(Sugar manufacture)

ACHKASOVA, I.O.; GAIKINA, A.G.; YEFREMOM, I.I.; SMAKHTINA, Yu.B.; KOMISSAROVA,  
M.T.; SOVETOVA, L.Ye.; CHISTIKOVA, A.I.; SHAKHOVA, A.N.

Effectiveness of ambulatory treatment of cholelithiasis patients  
at Zheleznyakovodsk Health Resort. Sber. nauch. rab. vrach. san.-kur.  
uchr. profsciuzov no.1:121-125 '64.

(MIRA 18:10)

I. Zheleznyakovodskaya kurortnaya poliklinika (glavnyy vrach I.I.  
Yefremov).

KROTKINA, N.A.; ACHKASOVA, M.A.

Late tumors in dogs following the introduction of chemical carcinogens into bones. Vop. onk. 9 no.7:15-21 '63  
(MIRA 16 :12)

1. Iz laboratorii opukholevykh shtammov Instituta onkologii AMN SSSR (dir. - deyствител'nyy chlen AMN SSSR prof. A.I. Serebrov). Adres avtorov: Leningrad, P-129, 2-ya Berezovaya ul., 3, Institut onkologii AMN SSSR.

USSR/Human and Animal Physiology. Effects of Physical Factors.  
Thermal Factor.

T-13

Abs Jour: Ref Zhur-Biol., No 12, 1958, 56165.

Author : Girgolav, S.S., Achkasova, T.A.

Inst :

Title : Temperature Reginen of Tissue in Applying Tourni-  
quets.

Orig Pub: Khirurgiya, 1956, No 4, 62-65.

Abstract: In practical activity a tourniquet which has been used to prevent bleeding, is frequently left at the bleeding site for a longer time than the permissible 2-2½ hours. Such practice may cause a gangrenous process. Tourniquets were applied to the haunches of rats. If the air temperature was 18-16° [c], necroses appeared after 5 or more hours. If the

Card : 1/2

ACHKASOVA, T.A.; KALINICHMAN, A.A.; KOSTYUCHENOK, B.M.; DEDYUKINA, V.V.

Modification of gas exchange and blood gases in pulmonary surgery  
under controlled hypothermia. Khirurgija 32 no.1:78-85 J '56

(MIR 9:6)

1. Iz gospital'noy khirurgicheskoy kliniki Voyenno-meditsinskoy  
ordena Lenina akademii imeni S.M. Kirova (nach.-general-major  
meditsinskoy sluzhby prof. I.S. Kolesnikov) i gruppy kriopatologii  
AMN SSSR (rukoveditel' deystvitel'nyy chlen AMN SSSR prof. S.S.  
Girgolav)

(LUNGS, surg.

controlled hypothermia, gas exchange & gases in )

(BODY TEMPERATURE

hypothermia, controlled in lung surgery, gas exchange &  
blood gases in)

(BLOOD,

gas exchange in controlled hypertension during lung  
surg.)

GIRGOLAV, S.S., professor; ACHKASOVA, T.A., kandidat meditsinskikh nauk

Temperature of tissues following application of a tourniquet.  
Khirurgija 32 no.4:62-65 Ap '56. (MIRA 9:8)

1. Deystvitel'nyy chlen AMN SSSR (for Girgolav) 2. Iz gruppy  
kriopatologii AMN SSSR  
(BODY TEMPERATURE,  
eff. of tourniquet (Rus))  
(HEMORRHAGE, therapy,  
tourniquet, eff. on body temperature (Rus))

ACHKASOVA, T.A. (Leningrad)

Significance of tissue temperature in the application of a tourniquet.  
Eksper. khir. 4 no. 6:50-51 N-D '59. (MIRA 14:6)  
(BLOOD--CIRCULATION, DISORDERS OF)  
(BODY TEMPERATURE)

ACHKASOVA, T.A.

Variation of gas exchange in animals during localized cooling.  
Opyt izuch. reg. fiziol. funk. 6:193-196 '63 (MIRA 17:3)

1. Gruppa fiziologii gazoobmena i teploobmena (rukovoditel' -  
prof. R.P.Ol'nyanskaya) Instituta fiziclogii imeni Pavlova  
AN SSSR.

ENGST, R.; ACKERMANN, H.

Investigation of the ability of various pesticides to inhibit cholesterinase in vitro. Cesk. hyg. 10 no.3:213-214. My '65.

1. Ustav pro vyzivu Nemecké akademie ved, Postupim.

LOMACHENKOV, S.Ye., inzh.; GUTKIN, B.G., kand. tekhn. nauk; SHAGURIN, K.A., otv. red.; ACHKINADZE, Sh.D., inzh., red.; KRASLAVSKIY, G.M., tekhn. red.

[Portable electric spark systems; work of the Research Branch of the State Planning Institute of the Ministry of Transportation Machinery Manufacture] Perenosnye elektroiskrovye ustavovki; opyt raboty NIF GPI MTrM. Leningrad, 1952, 11 p. (Informatsionno-tehnicheskii listok, no.23(364)) (MIRA 14:7)

1. Leningradskiy dom nauchno-tehnicheskoy propagandy. 2. Glavnnyy inzhener Leningradskogo doma nauchno-tehnicheskoy propagandy (for Shagurin)  
(Metals--Hardening) (Electric apparatus and appliances)

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000100310013-2

BOGORAD, L.S.; ACHKINADZE, Sh.D., red.; GVIERTS, V.L., tekhn.red.

[Device for continuous hardening of band saws by high frequency currents and heating in water] Prisposoblenie dlia nepreryvnoi zakalki lentochnykh pil tokami vysokoi chastoty s nagrevom v vode. Leningrad, 1955. 2 p. (Leningradskii dom nauchno-tekhnicheskoi propagandy. Informatsionno-tekhnicheskii listok, no.35(723))  
(Metals--Hardening) (Saws)

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000100310013-2"

VASIL'YEV, A.S., kand.tekhn.nauk; DOROFEEV, G.I., kand.tekhn.nauk;  
ACHKINADZE, Sh.D., red.; GVIRTS, V.L., tekhn.red.

[Changes in load parameters during induction heating under  
various operating conditions of generators] Izmenenie parametrov  
nagruzki pri induktsionnom nagreve v razlichnykh rezhimakh raboty  
mashinnogo generatora. Leningrad, 1955. 7 p. (Leningradskii dom  
nauchno-tehnicheskoi propagandy. Informatzionno tekhnicheskii  
listok, no.108(796)) (MIRA 10:12)

(Induction heating)

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000100310013-2

ANTONOVICH, A.V.; ACHKINADZE, Sh.D., red.; GVIERTS, V.L., tekhn.red.

[High-speed method of testing the hardness of metals at high temperatures] Uskorenniy metod ispytaniia tverdosti metallov pri vysokikh temperaturakh. Leningrad, 1955. 13 p. (Leningradskii dom nauchno-tehnicheskoi propagandy. Informatsionno-tehnicheskii listok, no.7(675)) (MIRA 10:12)

(Metals at high temperature)

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000100310013-2"

GURVICH, Anatoliy Konstantinovich; ACHKINADZE, Sh.D., red.; GVIRTS, V.L.,  
tekhn.red.

[Device for measuring depth of flaws by means of impulse ultrasonic  
defectoscopes] Pribor dlia izmerenija glubiny zaledaniia defekta  
pri impul'snoi ul'trazvukovoi defektoskopii. Leningrad, 1956.  
13 p. (Leningradskii dom nauchno-tekhnicheskoi propagandy. Infor-  
matsionno-tekhnicheskii listok; no.14. Kontrol' kachestva produktov)  
(MIRA 10:12)  
(Ultrasonic waves--Industrial applications)

"DONSKOY, Aleksandr Vasil'yevich, doktor tekhn.nauk; IVENSKIY, Grigoriy  
Vasil'yevich, inzhener; ACHKINADZE, Sh.D., red.; FREGER, D.P.,tekhn.red.

[Stabilized anode rectifier for electrothermal equipment; practices  
of "Sevzappromelektropich" and the M.I.Kalinin Polytechnic Institute  
in Leningrad] Stabilizirovannyi anodnyi vypriamitel' dlia elektro-  
termicheskikh ustrojstv; iz opyta "Sevzappromelektropech" i LPI  
imeni M.I.Kalinina. Leningrad, 1956. 14 p. (Leningradskii dom  
nauchno-tehnicheskoi propagandy. Informatsionno-tehnicheskii  
listok, no.19. Elektricheskie metody obrabotki metallov) (MIRA 10:12)  
(Electric current rectifiers)

SUBASHIYEV, V.K., kand.fiz.-mat.nauk; IOFFE, A.F., akademik, glavnnyy  
red.; SOMINSKIY, M.S., kand.fiz.-mat.nauk, zav.glavnogo red.;  
SHALYT, S.S., doktor fiz.-mat.nauk, red.; REGEL', A.P., kand.  
fiz.-mat.nauk, red.; SHAQURIN, K.A., inzh., red.; ACHKINADZE,  
Sh.D., inzh., red.; FREGER, D.P., tekhn.red.

[Semiconductor converters of solar energy] Poluprovodnikovye  
preobrazovateli solnechnoi energii. Leningrad, 1956. 58 p.  
(Leningradskii dom nauchno-tehnicheskoi propagandy. Polupro-  
vodniki i ikh tekhnicheskoe primenenie, no.9).

(MIRA 14:4)

(Solar batteries)

ИССЛЕДОВАНИЯ, С. И. Д.

IOFFE, A.F., akademik; SOMINSKIY, M.S., kand.fiz.-mat.nauk., red.; . . . . .  
MASLAKOVETS, Yu.P., doktor fiz.-mat.nauk, red.; SMOLENSKIY, G.A.,  
doktor fiz.-mat.nauk, red.; SHALYT, S.S., doktor fiz.-mat.nauk, red.;  
REGEL', A.R., kand.fiz.-mat.nauk, red.; SUBASHIYEV, V.K., kand.fiz.-  
mat.nauk, red.; SHAGURIN, K.A., inzh., red.; ACHKINADZE, Sh.D., inzh.;  
FREGER, D.P., tekhn.red.

[The possibilities of semiconductors and their future development]

Vozmozhnosti i perspektivy poluprovodnikov. Leningrad, Leningr.  
dom nauchno-tekhn.propagandy, 1957. 11 p. (Poluprovodniki, no.18)

(Semiconductors)

ACHKINADZE, Sh.D.

KUZYAYEV, Georgiy Nikolayevich; TSVEYMAN, Grigoriy Abramovich; ACHKINADZE,  
Sh.D., inzh., red.; GVIRTS, V.L., tekhn.red.

[Ultrasonic equipment for preparing hard and fragile materials]  
Ul'trazvukovaia ustanovka dlja obrabotki tverdykh i khrupkikh  
materialov. Leningrad, Leningr.dom nauchno-tekhn.propagandy, 1957.  
27 p. (Informatsionno-tehnicheskii listok, nos.51/52. Elektricheskie  
metody obrabotki metallov) (MIRA 11;1)  
(Ultrasonic waves--Industrial applications)

OSTROUMOV, Andrey Georgiyevich, inzh.; IOFFE, A.F., akademik, red.;  
SOMINSKIY, M.S., kand.fiz.-mat.nauk, red.; MASLAKOVETS, Yu.P.,  
doktor fiz.-mat.nauk, red.; SMOLENSKIY, G.A., doktor fiz.-mat.  
nauk, red.; SHALYT, S.S., doktor fiz.-mat.nauk, red.; REGEL', A.R.,  
kand.fiz.-mat.nauk, red.; SUBASHIYEV, V.K., kand.fiz.-mat.nauk,  
red.; SHAQURIN, K.A., inzh.; ACHKINADZE, Sh.D., inzh., red.;  
FREGER, D.P., tekhn.red.

[Piezoelectric substances] P'ezoelektriки. Leningrad, Leningr.  
dom nauchno-tekhn.propagandy, 1957. 30 p. (Poluprovodniki, no.16)  
(MIRA 10:12)

(Piezoelectric substances)

ACHKINADZE, Sh. D.

PASYNKOV, Vladimir Vasil'yevich, doktor tekhn.nauk; IOFFE, A.F., akademik,  
glavnnyy red.; SOMINSKIY, kand.fiz.-mat.nauk, red.; MASLAKOVETS, Yu.P.,  
doktor fiz.-mat.nauk, red.; SMOLENSKIY, G.A., doktor fiz.-mat.nauk,  
red.; SHALYT, S.S., doktor fiz.-mat.nauk, red.; REGEL', A.R., kand.  
fiz.-mat.nauk, red.; SUBASHIYEV, V.K., kand.fiz.-mat.nauk, red.;  
SHAGURIN, K.A., inzh.; ACHKINADZE, Sh.D., inzh.; FREGER, D.P.,  
tekhn.red.

[Nonlinear semiconductor resistors; varistors] Nelineinyye  
poluprovodnikovye soprotivleniya; varistory. Leningrad, Leningr.  
dom nauchno-tekhn.propagandy, 1957. 35 p. (Poluprovodniki, no.5)  
(Electric resistors) (MIRA 11:1)

MIRLIN, David Naumovich; IOFFE, A.F., akademik, red.; SOMINSKIY, M.S.,  
kand.fiz.-mat.nauk, red.; MASLAKOVETS, Yu.P., doktor fiz.-mat.  
nauk, red.; SMOLENSKIY, G.A., doktor fiz.-mat.nauk, red.;  
SHALYT, S.S., doktor fiz.-mat.nauk, red.; REGEL, A.R., kand.fiz.-mat.  
nauk, red.; SUBASHIYEV, V.K., kand.fiz.-mat.nauk, red.; SHAGURIN, K.A.,  
inzh., red.; ACHKINADZE, Sh.D., inzh., red.; FREGER, D.P., tekhn.red.

[Semiconductor bolometers] Poluprovodnikovye bolometry. Leningrad,  
Leningr.dom nauchno-tekhn.propagandy. 1957. 36 p. (Poluprovodniki,  
no.4) (MIRA 10:12)

(Bolometer)

VORONIN, Anatoliy Nikolayevich, inzh.; IOFFE, A.F., akademik, red.;  
SOMINSKIY, M.S., kand. fiz.-mat. nauk, red.; MASLAKOVETS, Yu.P.,  
doktor fiz.-mat.nauk; red.; SMOLENSKIY, G.A., doktor fiz.-mat.nauk,  
red.; SHALYT, S.S., doktor fiz.-mat.nauk, red.; REGEL', A.R., kand.  
fiz.-mat.nauk; SUBASHIYEV, V.K., kand.fiz.-mat.nauk, red.; SHAGURIN,  
K.A., inzh.red.; ACHKINADZE, Sh.D., inzh.; FREGER, D.P., tekhn.red.

[Semiconductor thermoelectric generators] Poluprovodnikovye termo-  
elektrogeneratory. Leningrad, Leningr. dom nauchno-tekhn.propagandy,  
1957. 43 p. (Poluprovodniki, no.13) (MIRA 11:3)  
(Semiconductors) (Electric generators)

SMOLENSKIY, Georgiy Anatol'yevich, doktor fiz.-mat.nauk; ISUPOV, Vladislav Aleksandrovich, inzh.; IOFFE, A.F., akademik red.; SOMINSKIY, M.S., kand.fiz-mat.nauk, red.; MASLAKOVETS, Yu.P., doktor fiz.-mat.nauk; SHALIK, S.S., doktor, fiz-mat.nauk; REGEL', A.R., kand.fiz.-mat. nauk; SUBSHIYEV, V.K., kand.fiz-mat.nauk; SHAGURIN, K.A., inzh.; ACHKINADZE, Sh.D., inzh., red.; FREGER, D.P., tekhn.red.

[Seignettelectric substances] Segnetoelektriki. Leningrad,  
Leningr.dom nauchno-tekhn.propagandy, 1957. 43 p. (Poluprovodniki,  
no.15) (MIRA 10:12)

(Ferroelectric substances)

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CIA-RDP86-00513R000100310013-2

ГЕРМАНИКА СРН  
SUBASHIYEV, Yagan Kasparovich, kand. fiz.-mat. nauk.; IOFFE, A.F., glavnyy  
red.; SOMINSKIY, M.S., kand. fiz.-mat. nauk, red.; MASLAKOVETS,  
Yu. P., doktor fiz.-mat. nauk, red.; SMOLENSKIY, G.A., doktor fiz.-mat.  
nauk, red.; SHALYT, S.S., doktor fiz.-mat. nauk, red.; REGEL', A.R.  
kand. fiz.-mat. nauk, red.; SHAGYRIN, K.A., inzh., red.; ACHKINADZE,  
Sh. D., inzh., red.

[Transistor diodes and triodes; point-contact diodes and triodes]  
Poluprovodnikovye diody i triody; tochechnye diody i triody.  
Leningrad, Leningr. dom nauchno-tekh. propagandy, 1957. 52 p.  
(Poluprovodniki, no. 7). (MIRA 11:11)

(Transistors)

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CIA-RDP86-00513R000100310013-2"

SOMINSKIY, Miron Samuilovich, kand. fiz.-mat. nauk; IOFFE, A.F., akademik,  
glavnnyy red.; MASLAKOVETS, Yu.P., doktor fiz.-mat. nauk, red.;  
SMOLENSKIY, G.A., doktor fiz.-mat. nauk, red.; SHALIT, S.S.,  
doktor fiz.-mat. nauk, red.; REGEL', A.P., kand. fiz.-mat. nauk, red.;  
SUBASHIYEV, V.K., kand. fiz.-mat. nauk, red.; SHAGURIN, K.A.,  
inzh., red.; ACHKINADZE, Sh.D. inzh., red.; FREGER, D.P., tekhn.  
red.

[Photoresistors] Fotosoprotivleniya. Leningrad, Leningr. dom nauchno-  
tekhn. propagandy, 1957. 54 p. (Poluprovodniki, no.6). (MIRA 11:9)  
(Photoelectric cells)

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17.01.87 / M. D. S. - 30. 10.

SHEFTEL', Iosif Teodorovich, kand. tekhn. nauk; ACHKINADZE, Sh.D., inzh,  
red.; FREGER, D.P., tekhn. red.

[Thermistors] Termosoprotivleniya. Leningrad, Ob-vo po rasprostrane-  
niu polit. i nauchnykh znanii RSFSR, 1957. 60 p. (Poluprovodniki,  
no.3). (MIRA 11:7)

(Thermistors)

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CIA-RDP86-00513R000100310013-2"

ACHKINADZE, Sh.Y.

SUBASHIYEV, Vagan Kasparovich, kand. fiz.-mat nauk.; IOFFE, A.F., akad.,  
glavnny red.; SOMINSKIY, M.S., kand. fiz.-mat. nauk, red.; MASIAKOVETS,  
Yu. P., doktor fiz.-mat. nauk, red.; SMOLENSKIY, G.A., doktor fiz.-mat.  
nauk, red.; SHALYM, S.S., doktor fiz.-mat. nauk, red.; REGEL',  
A.R., kand. fiz.-mat. nauk, red.; SHAGURIN, K.A., inzh., red.;  
ACHKINADZE, Sh.D., inzh., red.; FREGER, D.P., tekhn. red.

[Photoelectric converters of solar energy] Fotoelektricheskie  
preobrazovateli solnechnoi energii. Leningrad, Leningr. dom nauchno-  
tekhn. propagandy, 1957. 61 p. (Poluprovodniki, no. 9). (MIRA 11:12)  
(Solar batteries)

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CIA-RDP86-00513R000100310013-2

ACHKINADZE, Sh. II.

SELLER, Isaak Khaimovich, inzh.; MESSKIN, Samuil Semenovich, inzh.; IOPFE, A.F., akademik, red.; SOMINSKIY, M.S., kand.fiz.-mat.nauk, red.; MASLAKOVETS, Yu.P., doktor fiz.-mat.nauk; SMOLENSKIY, G.A., doktor fiz.mat.nauk; SHALYT, S.S., doktor, fiz.-mat.nauk; REGEL', A.R., kand.fiz.-mat.nauk; SUBASHIYEV, V.K., kand.fiz.-mat.nauk; SHAGURIN, K.A., inzh.; ACHKINADZE, Sh.D, inzh, red; FREGER, D.P., tekhn.red.

[Semiconductor contact rectifiers] Poluprovodnikovye vypriamiteli.  
Leningrad, Leningr.dom nauchno-tekhn.propagandy, 1957. 94 p.  
(MIRA 10:12)

(Electric current rectifier)

APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000100310013-2"

ZHUZE, Vladimir Panteleymonovich; IOFFE, A.F., akademik, glavnnyy red.; SOMINSKIY, M.S., kand.fiz.-mat.-nauk, red.; MASLAKOVETS, Yu.P., doktor fiz.-mat.nauk, red.; SMOLENSKIY, G.A., doktor fiz.-mat. nauk, red.; SHALYT, S.S., doktor fiz.-mat.nauk, red.; REGEI', A.R., kand.fiz.-mat.nauk, red.; SUBASHIYEV, V.K., kand.fiz.-mat.nauk, red.; SHAGURIN, K.A., inzh., red.; ACHKINADZE, Sh.D., inzh., red.; FREGER, D.P., tekhn.red.

[Semiconducting materials (semiconductor elements)] Poluprovodnikovye materialy (elementy - poluprovodniki). Leningrad, 1957.  
101 p. (Obshchestvo po rasprostraneniuu politicheskikh i nauchnykh  
znanii RSFSR, no.17) (MIRA 12:4)

(Semiconductors)

TRANSLATED, 1971, U.S.

137-58-4-8597

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 4, p 325 (USSR)

AUTHOR: Achkinadze, Sh. D.

TITLE: Ultrasonics and Its Employment in Industry (Ul'trazvuk i ego primeneniye v promyshlennosti)

PERIODICAL: V sb.: Mashinostroyeniye, Moscow-Leningrad, Mashgiz, 1957, pp 242-254

ABSTRACT: A review of the employment of ultrasonic vibrations in various fields of industry. The use of ultrasonics in flaw detection, washing, cleaning, soldering and machining is examined. We are informed of the utilization of ultrasonic vibrations for cleaning paraffin skin from oil-well casings and in producing emulsions and essences.

Yu. L.

1. Ultrasonics--USSR 2. Ultrasonic radiation--Applications

Card 1/1

OLESK, Aleksandr Osval'dovich; ACHKINADZE, Sh.D., inzh., red.; KUBNEVA,  
M.M., tekhn.red.

[Highly sensitive selenium-cadmium photoconductive cells] Vysoko-  
chuvstvitel'nye selenisto-kadmievye fotoscopotivleniya. Leningrad,  
Leningr.dom nauchno-tekhn.propagandy, 1958. 23 p. (Informatsionno-  
tekhnicheskii listok, no.65. Elektricheskie metody obrabotki  
metallov) (MIRA 12:9)  
(Photoconductivity)

SPITSYNA, Irina Fedorovna; ACHKINADZE, Sh.D., red.; FREGER, D.P., tekhn.red.

[Ultrasonic thickness meters and their use in measuring thickness]  
Ul'trazvukovye tolshchinomery i tekhnika izmerenija tolshchin  
s ikh pomoshch'iu. Leningrad, Leningr.dom nauchno-tekhn.propa-  
gandy, 1958. 27 p. (Informatsionno-tehnicheskii listok, nos.  
76-77. Elektricheskie metody obrabotki metallov). (MIRA 12:9)  
(Thickness measurement)  
(Ultrasonic waves--Industrial applications)

PHASE I BOOK EXPLOITATION

SOV/3633

Achkinadze, Shamil' Dautovich

Promyshlennoye primeneniye ul'trazvuka v mashinostroyenii i priborostroyenii; obzor, Vyp. 1 (Industrial Applications of Ultrasonics in Machine and Instrument-Manufacturing Industries; Review, No. 1) Leningrad, 1958. 59 p. 6,200 copies printed.

Sponsoring Agencies: Obshchestvo po rasprostraneniyu politicheskikh i nauchnykh znanii RSFSR, and Leningrad. Dom nauchno-tehnicheskoy propagandy.

Ed.: D.B. Dianov, Candidate of Technical Sciences; Tech. Ed.: V.L. Gvirtz.

PURPOSE: This book is intended for engineers and technicians engaged in the design and production of machinery and instruments.

COVERAGE: This book is the first part of a survey of the techniques and applications of ultrasonics in industry. It discusses a wide variety of

Card 1/3

## Industrial Applications of Ultrasonics (Cont.)

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methods and sources for obtaining elastic vibrations, the technical characteristics of particular ultrasonic apparatus, and the application of ultrasonic techniques in several fields, such as metallurgy, electrochemistry, the cutting of hard and brittle materials, the cleaning of parts, the preparation of emulsions and the dispersion of substances, tinning and soldering, and the coagulation of aerosols. The table of contents for Part II is also given in this booklet. References appear in Part II. The author thanks I.G. Mikhaylov, Candidate of Physics and Mathematics, and L.G. Markulov, Candidate of Technical Sciences, for their help in preparing the book.

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AVAILABLE: Library of Congress (TJ1167.A25).

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7-13-60

"APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000100310013-2

LEVINSON, Yevgeniy Maksimovich; ACHKINADZE, Sh.D., inzh., red.; FLEGER,  
D.P., tekhn.red.

[Present state of electric spark machining of metals; a survey]  
Sovremennoe sostoianie elektroiskrovoy obrabotki metallov; obzor.  
Leningrad, Leningr.dom nauchno-tekhn.propagandy, 1958. 105 p.  
(MIRA 12:12)

(Electric metal cutting)

APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000100310013-2"

SHUTILOV, Vladimir Aleksandrovich; ACHKINADZE, Sh.D., inzh., red.;  
GVIERTS, V.L., tekhn.red.

[Methods for measuring the absolute intensity of ultrasonic waves; experimental results from A.A.Zhdanov State University]  
Sposoby izmerenii absoliutnoi intensivnosti ul'travzuka; iz opyta Gosudarstvennogo universiteta imeni A.A.Zhdanova. Leningrad, 1959. 23 p. (Leningradskii dom nauchno-tekhnicheskoi propagandy. Obmen peredovym cpytom. Seria: Elektricheskie metody obrabotki metallov, vyp.3).  
(Ultrasonic waves--Measurement)

(MIRA 13:9)

BELYKH, Ivan Kalistratovich, inzh.; ACHKINADZE, Sh.D., red.; SHILLING,  
V.A., red. izd-va; BELOGUROVA, I.A., tekhn. red.

[Modernization of the LKZ-18 machine for electric spark machining;  
practices of the Kirov Plant in Leningrad] Modernizatsiya elektro-  
iskrovogo stanka LKZ-18; iz opyta Leningraskogo Kirovskogo zavoda.  
Leningrad, 1960. 14 p. (Leningradskii Dom nauchno-tehnicheskoi pro-  
pagandy. Obmen peredovym opyтом. Seriya: Elektricheskie metody, ob-  
rabotki materialov, no.3) (MIRA 14:10)  
(Electric metal cutting--Equipment and supplies)

ACHKINADZE, Sh. D.

Ultrasonic vision. IUn.tekh. 4 no.1:52-53 Ja '60.  
(MIRA 13:5)  
(Ultrasonic waves--Industrial applications)

BRUK, Marlen Vladimirovich, insh.; ACHKINADZE, Sh.D., red.; FOMICHEV, A.G.,  
red. izd-va; BELOGUROVA, I.A., tekhn. red.

[Ultrasonic welding of metals] Ul'trazvukovaia svarka metallov; steno-  
gramma lektsii. Leningrad, 1961. 46 p. (MIRA 14:7)  
(Ultrasonic waves--Industrial applications) (Welding)

"APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000100310013-2

ACHKINAZI, S., inzh.-polkovnik; GAYENKO, A., inzh.-polkovnik; SHCHERBAN', V.,  
inzh.-podpolkovnik; ANIKEVICH, R., kapitan tekhn. sluzhby;  
KUZNETSOV, A., inzh.-kapitan; BIRYUKOV, A., starshiy inzh.-leytenant.

Experience in using a standard kit of universal accessories. Tankist  
no. 2:57-60 F '58. (MIRA 11:3)  
(Tanks (Military science)--Maintenance and repair)

APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000100310013-2"

ACHKOVA, M.

Age-related aspects of psychic reactions in oligophrenics to  
the introduction of diethylamine of lysergic acid. Zbir. nevr.  
i psikh. 65 no.12:1840-1846 '65. (MIRA 19:1)

1. Klinika detskikh psikhozov (zaveduyushchiy - prof. G.K. Ushakov)  
Instituta psichiatrii AMN SSSR, Moskva, i kafedra psichiatrii  
Vysshego meditsinskogo instituta (zaveduyushchiy - prof. G. Uzunov),  
Sofiya.

BULGARIA

ACHKOVA, M.; Department of Psychiatry, Higher Medical Ins  
in Sofia (Department head: Prof. Academician G. UZUNOV)

"Disorders of Intellectual Development in Early Childhood Schizophrenia."

Sofia, Nevrologiya, Psichiatriya i Nevrokhirurgiya, Vol 5, No 2, 1966, pp  
105-110

Abstract [author's Russian and English summaries modified]: By the method of long-term clinical observations and repeated medico-pedagogical examinations, the author followed up the disorders of intellectual development in 14 schizophrenic children in whom the illness developed before age five. According to the degree of damage, four main groups were distinguished with several borderline cases between them. First group: children with deep intellectual disintegration, not distinctly discernible from the deepest grades of oligophrenia. Second group: the schizophrenic process has caused an arrest of intellectual development, without complete deterioration of the previous knowledge. Third group: the development continues, but it is "sterile, peculiar and defective. Fourth group: the intellect is not damaged. Damage to the intellect in the second and third group is secondary, depending on psychological factors (pata-  
1/2

"APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000100310013-2

ACHLOV, Kh.G.

Some physical geographical characteristics of the Fergana Valley  
mouth ("Khodzhent Gates"). Trudy SAGU no.28:33-44 '51.(MIRA 9:5)  
(Fergana--Physical geography)

APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000100310013-2"

ACHMATOVICH, O.

*Structure of strychnine and brucine.* I. O. Achmatowicz. *Roczniki Chem.* 12, 562 (1932). — *Neostychnidine dimethiodide*,  $\text{C}_{21}\text{H}_{24}\text{ONi}_2\text{Cl}_2\text{O}_2$ , m. 293°, prep'd from neostychnidine diacetosulfate and NaI, yields with AgCl the corresponding dihydrochloride, identical with Clemo, Perkin, and Robinson's (*C. A.* 21, 3465) "methoxydihydrostychnidine dimethochloride" (I),  $\text{C}_{21}\text{H}_{24}\text{ONiCl}_2$ , prep'd by the successive action of  $\text{Me}_2\text{SO}_4$ , NaI and AgCl on methoxymethylidihydrostychnidine. I undergoes Finsen's reaction during methylation, involving the stages of methylation, elimination of  $\text{MeOH}$ , and reconstruction of the stychnidine ring; the same applies to the dimetho salts of methoxymethyltetrahydrostychnine, which are in reality dimetho salts of dihydrostychnidine, and have the compn.,  $\text{C}_{21}\text{H}_{24}\text{ONiX}_2$ , and not, as stated by Clemo *et al.*,  $\text{C}_{21}\text{H}_{24}\text{ON}_2\text{N}_2\text{X}_2$ ; in this case Finsen's reaction is catalyzed by  $\text{H}_2\text{O}_2$ . Methoxymethylidihydrostychnidine yields neostychnidine methiodide on successive treatment with  $\text{Me}_2\text{SO}_4$  and NaI. II. *Dihydromethoxymethylhexahydrostychnine and its derivatives.* *Ibid.* 13, 42. — Methoxymethylidihydrostychnine on electro-reduction yields in addn. to methoxymethyltetrahydrostychnidine (I) (*C. A.* 26, 2462), *dihydromethoxymethylhexahydrostychnine* (II), m. 110–118° (*methiodide*, m. 219–230°, *methochloride*, m. 210–12°; *nitrosoamine*, impure; *N,O-diacetate*, an oil). II yields I when treated with  $\text{POCl}_3$ , and methyldihydrostychnidine sulphate on prolonged treatment with 50%  $\text{H}_2\text{SO}_4$ . III. *Decomposition of strychnine and stychnidine methoehlorides by hydrogen in the presence of palladium.* *Ibid.* 13, 25–36 (1933). Strychnine methochloride with II (Pd) gives *chano-N(b)-methylhydrostychnine* (I),  $\text{C}_{21}\text{H}_{24}\text{ON}_2\text{N}_2$ , m. 145°, the dihydro deriv. of I (II), m. 201°, and *dihydrostrychnine methochloride* (III) ( $2\text{H}_2\text{O}$ ), m. 250°. III does not react with II or with KOMe; dihydrostrychnine cannot be obtained from it by thermal decompos. KOH and III yield *di-hydromethylstrychnine*, m. 274–0°. Electro-reduction of I or II yields *dihydro-*trans*-N-(b)-methylhydrostychnine* (IV),  $\text{C}_{21}\text{H}_{24}\text{ON}_2$ , m. 176° (*methiodide* and *methochloride*, uncrystallizable). Catalytic reduction of stychnidine methochloride yields chiefly IV, together with dihydrostychnidine and salts of *strychnidine-X* (V), m. 201–5° (*methiodide*, m. 290°), a new isomer of stychnidine. The *methochloride* of V, m. 202°, yields *methoxy*, m. 143–5°, and *hydroxymethoxymethylidihydrostychnine-X*, m. 301–5°, which heated with NaOMe in MeOH.

ACHMATOVICH, O.

A-3

Structure of strychnine and brucine. III. Decomposition of strychnine and strychnidine methochlorides by hydrogen in the presence of palladium. O. ACHMATOWICH (Rec. Chem., 1933, 13, 20-36). Strychnine methochloride with H<sub>2</sub> (Pd) gives chano-Nb-methylhydrostrychnine (I), C<sub>21</sub>H<sub>26</sub>(N<sub>2</sub>O), m.p. 143°, the dihydro-derivative of (I) (II), m.p. 20°, and dihydrostrychnine methochloride (III), +2H<sub>2</sub>O, m.p. 250°. (III) does not react with H<sub>2</sub> or with KO<sub>Me</sub>; dihydrostrychnine cannot be obtained from it by thermal decomp. KOH and (III) yield dihydro-methylstrychnine, m.p. 274-276°. Electro-reduction of (I) or (II) yields dihydro-choano-Nb-methylhydrostrychnidine (IV), C<sub>20</sub>H<sub>24</sub>ON<sub>2</sub>, m.p. 178° (methiodide and methochloride, uncrystallizable). Catalytic reduction of strychnidine methochloride yields chiefly (IV), together with dihydrostrychnidine and salts of strychnidine-X (V), m.p. 233-235° (methiodide, m.p. 290°), a new isomeride of strychnidine. The methochloride of (V), m.p. 292°, yields methoxy-, m.p. 143-145°, and hydroxymethoxy-methylhydrostrychnidine-X, m.p. 304-305°, when heated with NaOMe in MeOH solution.

R. T.

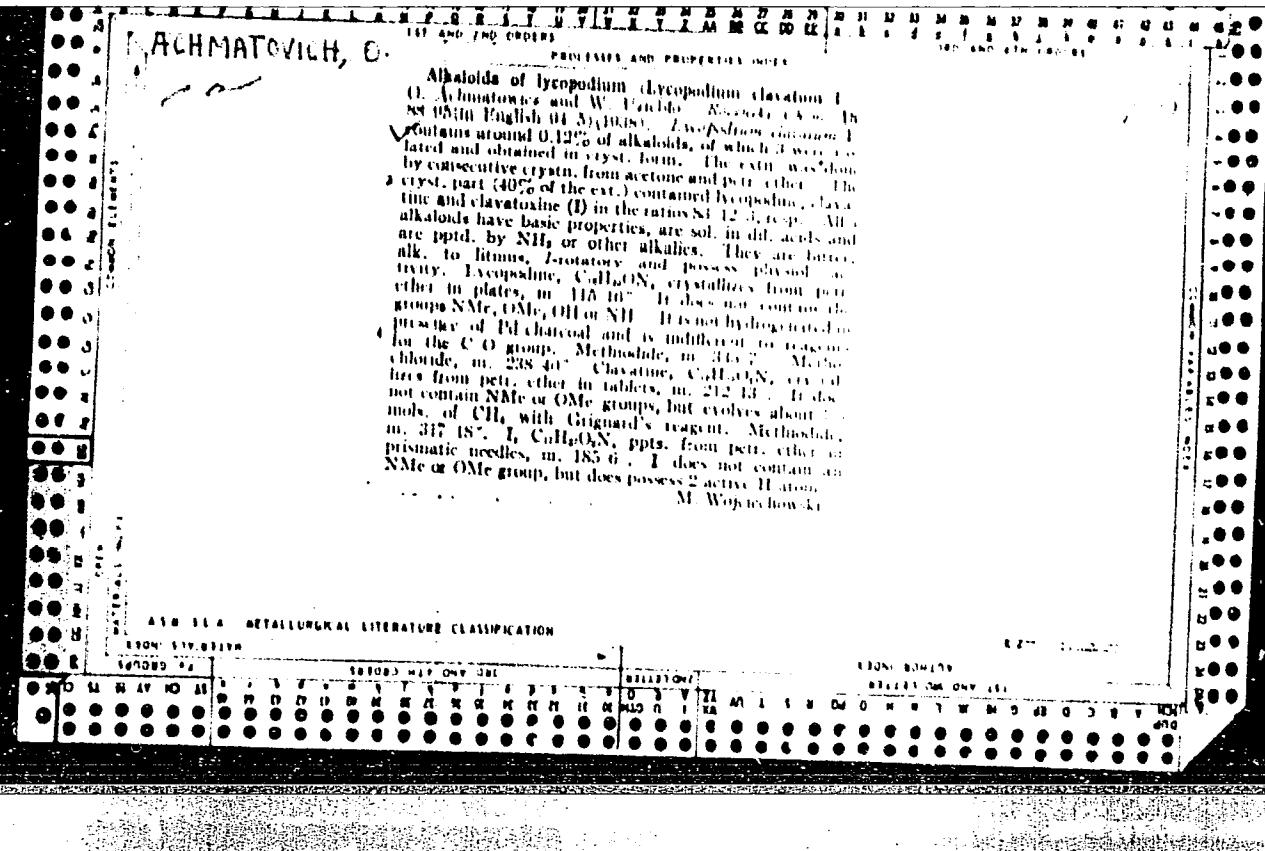
## ADM-51A METALLURGICAL LITERATURE CLASSIFICATION

STANDARD SUBJECT		SUBJECTS												STANDARD SUBJECT	
SEARCHED	INDEXED	SUBJECTS												SEARCHED	INDEXED
		SUBJECTS													
C	M	S	A	V	H	O	I	L	E	R	D	P	T	U	N
Y	Z	X	W	V	U	T	S	R	Q	P	N	M	L	K	J

		1ST AND 3RD QUARTER PROCESSES AND PROPERTIES INDEX		4TH AND 1ST QUARTER	
<i>BC</i>		ACHMATOVICH, O.		4 - 3	
COMMON ELEMENTS		STRYCHNINE AND BRUCINE. Catalytic decomposition of quaternary brucine salts. O. ACHMA-			
OPEN		TROWNE AND B. BOERNIG (Boca. Chem., 1934, 14,			
R		1530-1541).-Benzylbrucinium chloride yields di-			
P		hydrobrucine and PhMe on hydrogenation (Pd-C);			
O		similarly benzyletrychonium chloride yields dihydro-			
S		strychnine and PhMe. Methylbrucinium chloride			
F		gives methylidihydrobrucinium chloride and N, <sup>1</sup> -			
C		methylchanodiphydrobrucine, C <sub>21</sub> H <sub>26</sub> O <sub>4</sub> N <sub>2</sub> , m.p. 147-			
L		148° (methiodide, m.p. 263-265°; methochloride, m.p.			
H		214-216°; picrate, m.p. 147-150°), from which the			
I		H <sub>2</sub> -derivative, m.p. 143-144° (methiodide, m.p. 218-			
D		222°; Ac <sub>2</sub> derivative, m.p. 108-110°), is obtained by			
E		electro-reduction. The above results support the			
M		view that brucine and strychnine contain the allyl-			
A		amine group.		R. T.	
ABBRELLA METALLURGICAL LITERATURE CLASSIFICATION					
1ST QUARTER 1960					
2ND QUARTER 1960 ONLY ONE					
3RD QUARTER 1960 ONLY ONE					
4TH QUARTER 1960 ONLY ONE					

		1ST AND 2ND ORDERS	PROCESSES AND PROPERTIES INDEX	3RD AND 4TH ORDERS								
ALHMA TOVICH, D.												
PC				H-3								
		<p><b>Chlorination of 2-methylnaphthalene. (I).</b>          AGRIMOVICH and K. LINDNER (Recs. Chem., 1938, 18, 69-74).—The following substances were isolated from the complex mixture resulting from chlorination of 2-methylnaphthalene at 22° in diffused light: 1-chloro-2-methylnaphthalene (I), m.p. 102-104°/90 mm. (Identified with 1-chloro-2-methylnaphthalene (I), 1938, 69, 64); 1,4-dichloro-2-methylnaphthalene (II), m.p. 76-79°; and 2-dichloro-2-methylnaphthalene (III), m.p. 114-116°. (I) is chlorinated at 22° to yield (II), which gives with boiling aq. <math>\text{Pb}(\text{NO}_3)_4</math>, 1,4-dichloro-2-methylnaphthalene, m.p. 98-99° (decomp., m.p. 98-99°); and this is oxidized (<math>\text{KMnO}_4</math>) to 1-(2-C<sub>6</sub>H<sub>4</sub>COOH)-2-methylnaphthalene (IV), m.p. 140-150° (8 hr.) yield 9-C<sub>6</sub>H<sub>4</sub>COOH. R. T.</p>										
		<p>AIR-SEA METALLURGICAL LITERATURE CLASSIFICATION</p> <table border="1"> <tr> <td>EXPOSED TO AIR</td> <td>18000 HRS ONCE DRY</td> <td>EXPOSURE</td> <td>EXPOSED TO AIR</td> </tr> <tr> <td>P H O D D I W M K R R R E E</td> <td>12 HRS</td> <td>M A S W O H R I X M S D S T</td> <td>12 HRS</td> </tr> </table>			EXPOSED TO AIR	18000 HRS ONCE DRY	EXPOSURE	EXPOSED TO AIR	P H O D D I W M K R R R E E	12 HRS	M A S W O H R I X M S D S T	12 HRS
EXPOSED TO AIR	18000 HRS ONCE DRY	EXPOSURE	EXPOSED TO AIR									
P H O D D I W M K R R R E E	12 HRS	M A S W O H R I X M S D S T	12 HRS									

<b>RECHMATOVICH, O.</b>		SEARCHED [initials]	INDEXED	SERIALIZED	FILED
		[initials]	SEARCHED INDEXED SERIALIZED FILED		
<b>BC</b>		<p>Catalytic hydrogenation of quaternary ammonium salts. G. RECHMATOVICH and K. LINDENMUTH (Rec. Chem., 1958, 15, 75-87).—Catalytic hydrogenation (O-Pd catalyst) of quaternary NH<sub>4</sub> salts proceeds as follows, at 50 and 85°: NM<sub>2</sub>RCI → NM<sub>2</sub>+RH+HCl. In the case R = allyl, Ph, (CH<sub>3</sub>)<sub>2</sub>Pn (n = 1-3), and CHPh<sub>2</sub>CH=CH<sub>2</sub>, NM<sub>2</sub>CH<sub>2</sub>Ph, yields PhMe, HO and NM<sub>2</sub>CH<sub>2</sub>Ph (further hydrogenated to PhMe and NHMe). The following new compounds were obtained incidentally, by the standard method: 2-phenylpropyl- (enrichloride, m.p. 148-150°), and 2-naphthylmethyl-trimethylammonium chloride (enrichloride, m.p. 188°); hydrogenation products, NM<sub>2</sub>, HCl, and a methyldihydronaphthalene, b.p. 220-228°.</p> <p style="text-align: right;">R. T.</p>			
<b>ADP-SLA METALLURGICAL LITERATURE CLASSIFICATION</b>					
SEARCHED	INDEXED	SERIALIZED	FILED	SEARCHED	INDEXED
SEARCHED INDEXED SERIALIZED FILED		SEARCHED INDEXED SERIALIZED FILED			
RECHMATOVICH, K. LINDENMUTH					
NM <sub>2</sub> RCI → NM <sub>2</sub> +RH+HCl					
NM <sub>2</sub> CH <sub>2</sub> Ph → PhMe, HO, NM <sub>2</sub> CH <sub>2</sub> Ph					
2-phenylpropyl- (enrichloride, m.p. 148-150°)					
2-naphthylmethyl-trimethylammonium chloride (enrichloride, m.p. 188°)					
hydrogenation products, NM <sub>2</sub> , HCl, and a methyldihydronaphthalene, b.p. 220-228°					



ACHMATOWICZ, C.

**Constitution of vomicine.** Full methylation of dihydro vomicidine (I) Achmatowicz and B. Racinski, *Kasz. Chem.* **18**, 315-35 (in German), 311-50 (1968). Dihydrovomicidine-2MeI (II), prep'd. from dihydrovomicidine and MeI (C. A. **28**, 1589), heated with AgCl in H<sub>2</sub>O gives dihydrovomicidine-2MeCl (II), horny mass, Heating II with 20% MeOH-MeONa until the temp. reaches 135° gives O-methylidihydrovomicidine-A (III), m. 216-17°; methiodide, m. 211-12°; methochloride, m. 207.8°; heated over a bare flame or with MeOH-MeONa gives III; dimethiodide, m. 207-8°; dimethochloride (IV), m. 196.8°; dimethocarbonate (V), amorphous. III is also formed when O-methylvomicidine is reduced catalytically (PtO) or when *diketoborosulfonate*, *disodium salt*, prep'd. from I and Ag<sub>2</sub>C<sub>8</sub>O<sub>4</sub>, is decomposed by heat. Heating IV with MeOH-MeONa or V over a bare flame gives (O-methyl-V(b))-methylidihydrovomicidine (VI); m. 191.2°; methiodide, m. 196.8°; methochloride, m. 127.3°; heated with MeOH-MeONa regenerates VI; dimethiodide, m. 208.9°; dimethochloride (VII), m. 183.7°; dimethocarbonate (VIII), m. 176.8°. VI refluxed with 20% H<sub>2</sub>SO<sub>4</sub> for 4 hrs., neutralized with NH<sub>4</sub>OH and extd. with benzene gives III. The aq. layer treated with NaI gives O-methylidihydrovomicidine-D methiodide (IX), which seps. from a hot sard. aq. soln. as a dihydrate, m. 195.0°, solv. in H<sub>2</sub>O 1:100 at 17°; dried at 105°, in loss 1.5 H<sub>2</sub>O. VI catalytically reduced with Pt-C in 10% HCl, rendered alk. with NH<sub>4</sub>OH and treated with NaI gives IX. The methochloride (X)

corresponding to IX, m. 219.21°; heated with MeOH-MeONa it affords VI; heating at 200° and 2 mm. gives MeCl and O-methylidihydrovomicidine-D (XI), m. 198-201°. III and XI are not attacked by boiling 20% H<sub>2</sub>SO<sub>4</sub> and they are resistant against catalytic hydrogenation. Thermal decompn. of VIII gives O-methyl-V(b)-N,N-dimethylidihydrovomicidine (XII) which is also formed when VII is heated with MeOH-MeONa. XII, m. 121.2°; dimethiodide, m. 215.6°. Catalytic hydrogenation (Pt-C) of XII in 10% AcOH at room temp. gives a dihydro deriv. (XIII), m. 140.1°; dimethiodide, m. 219.5°; hydrogenation at 70° gives a tetrahydro deriv. (XIV), amorphous; methiodide, m. 175.8°. XII is not changed by boiling in 20% H<sub>2</sub>SO<sub>4</sub>. Estns. of <sup>13</sup>CMe groups in vomicine, dihydrovomicine, vomidrine, dihydrovomicidine, III, XI and XII gave neg. results, whereas XIII and XIV afforded a substantial part of an equiv. of AcOH when oxidized with CrO<sub>3</sub>.

M. Wojciechowski

Stanislaw Chirczowicz, Andrzej Zajicek, and GermanAchmatowicz, Jr. (Tech. Univ., Zielona Gora, Poland)Zeszyt Techn. 2/62, No. 2, Chem. No. 1, 97 (1971) 6(2)

(English summary). A new compd. probably 1,2-diphenyl-4,4-dibutyl-3,5-pyrazolidinedione (I) has been obtained. The starting material, 1,2-diphenyl-3,5-pyrazolidinedione (II) was obtained as prescribed by J. L. Dyer et al. (J. Org. Chem. 18, 243, 1953). On heating with 1 mol. eq. NaOH at 120°, 20% were obtained when EtOH was used as solvent, purified and when EtOH/H<sub>2</sub>O formed during reaction removed by distn. 11.25 g. of the product were obtained in the least amt. of EtOH/Et<sub>2</sub>O. When 1 mol. eq. NaOH and 1 g. LiBr was added, the mixt. heated a few hrs under reflux at 120°, and unreacted Na salt removed by leaching with water. The oily residue was then dissolved in the min. amt. of EtOH, crystd., the obtained crystals were dissolved in the min. amt. of benzene and ligroine (4:1),趁冷过滤, dried to give needles, m.p. 121-2°.

(A. Z.)

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REACH THERE IS NO ONE ELSE IN THE ROOM BUT I AND YOU TWO

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CIA-RDP86-00513R000100310013-2"

POLAND/Organic Chemistry - General and Theoretical Topics of  
Organic Chemistry. G-1

Abs Jour : Ref Zhur - Khimiya, No 14, 1958, 46601  
Author : O. Achmatowicz, F. Werner-Zamojska  
Inst : Academy of Sciences of Poland.  
Title : Chemistry of Carbonyl Cyanide. III. Mechanism of Reaction Between Carbonyl and Olefins Containing CH-C≡C Group.  
Orig Pub : Bull. Acad. polon. sci., 1957, cl. 3, 5, No 9, 923-925  
Abstract : The reactions of CO(CN)<sub>2</sub> (I) with pentene-1, pentene-2, trimethylethylene (II) and  $\alpha$ -methylstyrene (III) were studied. The reactions proceed with 2 moles of I similarly to the formerly described interaction of I with allylbenzene (RZhKhim, 1957, 37584) and result

Card 1/3

POLAND/Organic Chemistry - General and Theoretical Topics of  
Organic Chemistry. G-1

Abs Jour : Ref Zhur - Khimiya, No 14, 1958, 46602  
Author : O. Achmatowicz, A. Zamojski  
Inst : Academy of Sciences of Poland.  
Title : The Chemistry of Carbonyl Cyanide. IV. Dienophilic  
Properties of Carbonyl Cyanide and Diethyl Mesoxolate,  
Formation of Dihydropyran Derivatives.  
Orig Pub : Bull. Acad. polon. sci., 1957, cl, 3, 5, No 9, 927-  
929  
Abstract : CO(CN)<sub>2</sub> condenses rapidly at about 20° with the dieno-  
philic butadiene (I) and 2,3-dimethylbutadiene (II) cor-  
respondingly producing 6,6-dicyan-5,6-dihydro-1:2-pyran  
(yield 75%, melting point 16°, boiling point 69 to 80°/  
2 mm) and 3,4-dimethyl-6,6-dicyan-5,6-dihydro-1:2-pyran

Card 1/2

POLAND/Organic Chemistry - General and Theoretical Topics of  
Organic Chemistry. G-1

Abs Jour : Ref Zhur - Khimiya, No 14, 1958, 46603  
Author : O. Achmatowicz, A. Zwierzak  
Inst : Academy of Sciences of Poland.  
Title : The Chemistry of Carbonyl Cyanide. V. The reactions  
Between Carbonyl Cyanide and Olefines in Presence of  
Acetic Acid.  
Orig Pub : Bull. Acad. polon. sci., 1957, cl. 3, 5, No 9, 931-933  
  
Abstract : At the reaction of  $\text{CO}(\text{CN})_2$  (I) with 1,1-diphenylethy-  
lene (II) or 1,1-di-n-tolylethylene (III) in glacial  
 $\text{CH}_2\text{COCl}$  at a temperature below  $50^\circ$ ,  $(\text{RC}_6\text{H}_4)_2\text{C}(\text{OOCCH}_3)$ -  
 $-\text{CH}_2\text{X}$  (IV) are forming, R = H and X =  
 $\text{C}(\text{OH})(\text{CN})_2$  in IVa, and R =  $\text{CH}_3$  and X =  $\text{C}(\text{OH})(\text{CN})_2$  in  
IVb.

Card 1/3

POLAND/Organic Chemistry - General and Theoretical Topics  
of Organic Chemistry.

G-1

Abs Jour : Ref Zhur - Khimiya, No 14, 1958, 46603

regroups producing III, or loses HCN and  $\text{CH}_3\text{COOH}$   
converting into V.  
The structure of the obtained products was established  
by splitting.

Card 3/3

POLAND / Organic Chemistry. Synthetic Organic  
Chemistry.

G-2

Abs Jour: Ref Zhur-Khimiya, 1958, No 17, 57394.

Author : Polaczkowa W., Achmatowicz O., Bohm J.

Inst : Not given.

Title : 3,4,5-Triphenylbenzoic Acid.

Orig Pub: Roczn. chem., 1957, 31, No 1, 115-122.

Abstract: Synthesis of 3,4,5-triphenylbenzoic acid (I) is presented for the purpose of determining its structure. The starting materials employed were: 4-oxi-2,3,4-triphenylcyclopentene-2-OH-1 (II) and anhydride of maleic acid (III), which at a molal ratio of II:III = 1:1 in the diane synthesis form

Card 1/6

POLAND / Organic Chemistry; Synthetic Organic  
Chemistry.

G-2

Abs Jour: Ref Zhur-Khimiya, 1958, No 17, 57394.

Abstract: forms V; than as the result of aromatization and of splitting-off III transforms into I; VII is produced from V as a side reaction. 32.6 gr of II and 39.2 gr of III are slowly heated up to 200-210°, after 30 minutes the mixture is cooled, CH<sub>3</sub>OH is then added, and filtrated. A yield of 63% V of 315-317° melting point is obtained. VI is obtained by dissolving V in 2% NaOH solution and by precipitation with 5% aqueous HCl. VI is converted back to V at as low a temperature as 90°. The methyl ester of VI having 216-217° melting point is obtained from VI and CH<sub>2</sub>N<sub>2</sub>• IV

Card 3/6

POLAND / Organic Chemistry. Synthetic Organic  
Chemistry.

G-2

Abs Jour: Ref Zhur-Khimiya, 1958, No 17, 57394.

Abstract: Duced into the apparatus. 10 gr of V and 3.5 gr NaOH are dissolved in 50 cc of water, neutralized until pH of 7 is reached, and then precipitated with CuCl<sub>2</sub> water solution; the obtained 13.58 gr of light blue powder is then treated with 50 cc of quinoline, heated at 200° for 20 minutes, 5 gr NaOH in 50 cc of water is added after cooling, followed by the removal of solvent by steam stripping. The remainder is recrystallized from a water solution followed by dissolving the obtained crystals and by precipitating with HCl. A yield of 46% of I, having 265-266.5° melting point (from alcohol) is

Card 5/6

*C. Achmatowicz*

The chemistry of carbonyl cyanide. VI. New interpretation of the reaction between carbonyl cyanide and 1,1-diphenylethylenes. J.O. Achmatowicz and M. Leplawy (Univ. Warsaw). Bull. Acad. polon. sci., Ser. sci., Chim., vol. ci, geograph. 6, 400-15 (1958) (in English); cf. C.A. 52, 6333a.

The products of the reactions between  $\text{CO}(\text{CN})_2$  and  $\text{Ph}_2\text{C:CH}_2$  or  $(p\text{-MeC}_6\text{H}_4)_2\text{C:CH}_2$  have the structures

$\text{CH}_3\text{C}(\text{CN})_2\text{O.CPh}_2$  (I) or  $\text{CH}_3\text{C}(\text{CN})_2\text{O.C}(\text{C}_6\text{H}_4\text{Me}-p)_2$  (II), and do not contain OH groups or 3-C rings, unlike supposed earlier (cf. C.A. 51, 5013). The evidence is supplied by infrared absorption spectra, analogy with Diels-Alder condensation (C.A. 52, 6333d), and the following reactions. I (m. 108°) and II (m. 94-5°) gently heated in acetone with 20%  $\text{H}_2\text{SO}_4$  yielded  $\text{HOCPH}_2\text{CH}_2\text{CO}_2\text{H}$  and  $\text{HO}(p\text{-MeC}_6\text{H}_4)_2\text{CCH}_2\text{CO}_2\text{H}$ , resp. I heated with glacial  $\text{AcOH}$  at 60° yielded the unstable oily  $\text{AcOCPh}_2\text{CH}_2\text{C}(\text{CN})\text{OH}$ ;  $\text{AcOCPh}_2\text{CH}_2\text{CONHPh}$ , m. 170-2°. II in these conditions gave  $(p\text{-MeC}_6\text{H}_4)_2\text{C}(\text{OAc})\text{CH}_2\text{C}(\text{CN})\text{OH}$ , m. 121-2°; the analogous anilide, m. 181-3°. Acid hydrolysis of these anilides gave the anilides of  $\beta,\beta$ -diphenyl-, and  $\beta,\beta$ -di-p-tolylacrylic acids.  $\beta,\beta$ -Diphenyl-1,3-epoxypropane-1,1-dicarboxylic acid (III) di-Me ester (IIIa), m. 125°, gave in boiling  $\text{AcOH}$   $\text{Ph}_2\text{C:CHC(OH)(CO}_2\text{Me})_2$  (IV), m. 87-9°, which on reduction with H on Pd gave  $\text{CHPh}_2\text{CH}_2\text{C}(\text{OH})(\text{CO}_2\text{Me})_2$ , m.

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07.5-9°, yielding with 3%  $\text{NaOH}$  the respective acid, m. 105°,  $\lambda$  2.84 and 5.91  $\mu$ , which on decarboxylation gave  $\text{CHPh}_2\text{CH}_2\text{CH}(\text{OH})\text{CO}_2\text{H}$ , m. 131-3°,  $\lambda$  2.97, 5.78  $\mu$ . III di-K salt obtained by treating I with boiling 20% KOH yielded with  $\text{HCl}$  1-oxo-2-hydroxy-4,4-diphenyl-1,4-epoxybutane-3-carboxylic acid (V), m. 103.5-5°, which on pyrolysis gave 1-oxo-2-hydroxy-4,4-diphenyl-1,4-epoxybutane and 1-oxo-4,4-diphenyl-1,4-epoxybutene. V was also produced from the respective amide, m. 207-9°, obtained at 60° from I in 5% KOH. V methylated with  $\text{SOCl}_2$  and  $\text{MeOH}$  or  $\text{HCl}$  and  $\text{MeOH}$  afforded IV and Me 1-oxo-4,4-diphenyl-2-hydroxy-1,4-epoxybutane-2-carboxylate (VI), m. 125° (acetyl deriv., m. 103-5°). VI was also obtained from V by action of either  $\text{CH}_3\text{N}_2$  or KOH followed by  $\text{AgNO}_3$  and  $\text{MeI}$ . Infrared spectra within 2-10  $\mu$  for I, IIIa, V, and VI are given. VII. Reaction between carbonyl cyanide and ketene. Ibid. 417-18.—Ketene was found to react vigorously with  $\text{CO}(\text{CN})_2$  (I) to give 81.6% 2-oxo-3,3-dicyano-1,3-epoxypropane (II), m. 182°, identical with the product of a reaction between I and  $\text{Ac}_2\text{O}$  (Malachowski, C.A. 47, 8653i). The structure of II was proved (a) by refluxing with  $\text{EtOH}$  for 12 hrs., whereupon  $\text{CH}(\text{CO}_2\text{Et})_2$  was obtained, (b) by treating with  $\text{PhNH}_2$  in acetone which gave  $\text{CH}_2\text{CONHPh}$ , (c) by treating with  $\text{PhNNH}_2$  nitrate which gave no phenylhydrazone (Thesing and Witzel, C.A. 50, 1580i), and (d) by the 4.41  $\mu$  and 5.34  $\mu$  absorption bands, corresponding to the cyano group and  $\beta$ -lactone ring, resp. J. Stoeckli.

Country	:USSR
Category	:Organic Chemistry, Synthetic Organic Chemistry.
Pub. Date	:Ref. Zhur-Khimika, No. 10, p. 59, No. 12343
Author	:Ivanov, V.; Ivanova, L.B.
Institution	:The Scientific Research Institute for Pharmacy
Title	:The Synthesis of Serosin (Sodium Lipoiodomethane Sulfonate)
Only Pub.	:Tr. N.-i. in-t farmatsiye, 1957, 1, 40-41
Abstract	:A method suitable for industrial use has been developed of deriving serosin from CHI <sub>3</sub> and Na <sub>2</sub> SO <sub>3</sub> . A 1.605 solution of Na <sub>2</sub> CH in 30% alcohol is poured on a mixture of 1 mol CHI <sub>3</sub> , 0.16 g Cu powder and 4 mol Na <sub>2</sub> SO <sub>3</sub> . This is boiled for 2-3 hours (until the CHI <sub>3</sub> disappears) and then evaporated; extraction is made with acetone; residue is boiled with CH <sub>3</sub> CH; it is then concentrated and diluted with acetone; the serosin is then obtained with a 75% yield. --P.Vintevskiy
Surf:	:1/1

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Country : Poland  
Category : Organic Chemistry. Natural Compounds and their  
synthetic Analogues.  
Aba. Jour. : Ref. Zhur. Khimiya No. 6, 1959 19589  
Author : Achmatowicz, O.; Rodewald, W.  
Institut. : IV. Subsidiary  
Title : Alkaloids of Genus Lycopodium. I. Alkaloids of Lycopodium annotinum L.  
Orig Pub. : Roczn. chem., 1958, 3: 85-493

Abstract : From oily residues -- fractions (12.8 g, 3 g and 11 g), collected during separation of alkaloids of Lycopodium annotinum (LA) of Polish origin (see Communication III, RZhKhim, 1957, 41268) were isolated by repeated recrystallization from alcohol, water and aqueous alcohol, in the form of methiodides (MI), a number of liquid bases. Listing the formula of the base, yield in g, MP of MI,  $[\alpha]_D^{20}$  of MI in 5% aqueous solution, MP of methochloride, methoperchlorate, and methopicrate (recrystallized from water, unless stated otherwise):  $C_{16}H_{23}ON$  (I), 0.9, 265, +150.1, 210, 270, 230-232 (decomposes);  $C_{17}H_{27}O_2N$  (II), 1, 304, -66, 258, 321 (partial sintering), liquid;  $C_{16}H_{23}O_2N$  (III)

Card: 1/3

ACHMATOWICZ, O.; WERNER-ZAMOJSKA, F.

Note on organic acids of Lycopodium annotinum, L. selago, and L. clavatum.  
p. 1127.

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ROCZNIKI CHEMII. (Polska Akademia Nauk) Warszawa! Vol. 32, no. 5, 1958

Monthly List of East European Accessions (EEAI) LC, Vol. 8, no. 7, July 1959

UNCL.

Distr: 4E2c(j)

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✓ An improved preparation of carbonyl cyanide. Osman Achmatowicz and Miroslaw Lepiawcy (Politechnika, Lodz, Poland). Roczniki Chem. 32, 1876-9(1958)(in English).— The Malachowski method of synthesis of carbonyl cyanide is improved by reducing the risk of explosion and increasing the yield (Malachowski, et al., C.A. 31, 49504). Portions (30 g.) of acetoxyiminoacetic cyanide (I) are decompr. in a conical Claisen flask fitted to a condenser connected to two receivers, cooled to -15°. First, the pressure is reduced to 600 mm. then the flask is heated until I melts with further rapid increase to 155°. Heating is continued 45 min. to 180°. The crude product is purified by distn. through a Vigreux column and the fraction up to 62°/160 mm. is collected and redistd. to give 49% I, b. 84-6°.

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ACHMATOWICZ, O.; ACHMATOWICZ, O. Jr.; BELNIAK, K.; WROBEL, J. T.

The chemistry of carbonyl cyanide. VII. On the competing effects of conjugation and hyperconjugation on the nucleophilic reactivity of the ethylene linkage in arylmonoolefines. Bul chim PAN 8 no.7: 345-350 '60. (EEAI 10:9/10)

1. Department of Organic Chemistry, University, Warsaw and Department of Organic Synthesis, Polish Academy of Sciences. Presented by O. Achmatowicz.

(Carbonyl compounds) (Cyanide) (Nuclear reaction)  
(Ethylene)